VOLUNTARY AMENDMENT RECEIVED ON OCTOBER 24, 1994 BY JAPANESE PATENT OFFICE

CLAIMS

1. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

pen input means able to enter character or drawing information by operating a pen;

conversion means for converting the character information entered by said pen input means into a specified code;

designation means for designating that the information entered by said pen input means is a facsimile number; and

transmission control means for transmitting the character or drawing information entered by said pen input means or the code converted by said conversion means, based

on the facsimile number of an addressee designated by said designation means.

2. The portable communicator according to claim 1 in which said portable computer is further provided with:

display means for displaying the character information entered by said pen input means; and

display control means for compressing the previously entered characters if the number of characters to be displayed on said display means exceeds the predetermined number of characters and displaying a newly entered character in an uncompressed condition.

3. (AMENDED) A portable communicator communicable with main control unit, provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel or transmitting data via said wireless communication means to said public communication channel, in which

said portable computer is provided with:

determination means for determining whether or not communication is being made with said main control unit

connected via said wireless communication means; and

update means for receiving and updating the latest operation program and data table transmitted during communication with said main control unit only when it is determined by said determination means that communication is being made with said main control unit.

4. (AMENDED) A portable communicator carried by a finance salesman, provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

software storage medium for storing information for executing payment process, current deposit process, ordinary deposit process or time deposit process at a financial agency;

read means provided with said software storage medium detachably attached thereto for reading information from said software storage medium;

selection means for selecting payment process, current deposit process, ordinary deposit process or time deposit process at the financial agency;

input means for entering data regarding said processes;

process execution means for exchanging data via said wireless communication means with a financial agency center and executing the process selected by said selection means, based on the data entered by said input means and the data read by said read means; and

print means for printing the result of the process executed by said process execution means.

5. (AMENDED) A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

call means for making a call via said wireless communication means; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering the position coordinate data indicating the current position from a GPS user unit held in said housing or provided outside said housing;

emergency transmission instruction means for instructing an emergency call; and

signal superposition means for superposing the position coordinate data indicating the current position entered by said position coordinate data input means over the talk signal from said call means, according to an instruction from said emergency transmission instruction means.

6. (AMENDED) The portable communicator according to claim 5 in which said signal superposition means superposes the signal for indicating with voice the feature of the vicinity of the current position over the talk signal from said call means.

7. (AMENDED) The portable communicator according to claim 5 in which said signal superposition means superposes the signal for informing via facsimile the map of the vicinity of the current position over the talk signal from said call means.

8. (AMENDED) The portable communicator according to claim 5 in which said portable computer is provided with feature extraction means for retrieving the prestored map information based on said position coordinate data of said position coordinate data input means and extracting the feature of the vicinity from the map information

corresponding to the position coordinate data, and

said signal superposition means superposes the signal for indicating with voice said feature extracted by said feature extraction means over the talk signal from said call means.

9. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering position coordinate data from a GPS user unit held in said housing or provided outside said housing; and

selection means for selecting the transmission number of the addressee nearest to the current position from a plurality of individuals, companies or official agencies providing specified service, based on the position coordinate data of said position coordinate data input means,

such that the addressee selected by said selection means

can be communicated with.

10. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering position coordinate data from a GPS user unit held in said housing or provided outside said housing; and

selection means for retrieving specified map information and selecting the transmission number of the addressee nearest to the current position on map from a plurality of individuals, companies or official agencies providing specified service, based on the position coordinate data of said position coordinate data input means,

such that the addressee selected by said selection means can be communicated with.

11. (AMENDED) A portable communicator that can wirelessly communicate with another wireless communication

network, provided with

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

connection specification memory means provided in said housing for storing electric wave form, frequencies, protocol or other connection specification for linkage to a predetermined wireless communication network;

communication control means provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel;

determination means provided in said housing for identifying linkable service networks and determining a network to use among the identified service networks based on the predetermined order of priority; and

connection specification signal output means provided in said housing for transmitting a signal regarding connection specification to said wireless communication means or said communication control means, based on the storage content of said connection specification memory means and the determination content of said determination means.

12. (AMENDED) A portable communicator that can

wirelessly communicate with another wireless communication network, provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

memory means for storing data regarding the content of service registered beforehand corresponding to the service of communication company providing telephone service;

display means for displaying the content of service stored in said memory means;

selection means for selecting a specified service from the services displayed on said display means; and

communication control means connecting via said wireless communication means with the communication company selected by said selection means.

13. (AMENDED) The portable communicator according to claim 12 in which the content of service stored in said memory means includes international subscriber dialing

telephone service information and international operator-assisted communication service information, and said communication control means connects with an international communication company based on the predetermined order of priority according to the selection of said selection means and predetermined communication rates.

14. (AMENDED) The portable communicator according to claim 12 or 13 in which said communication control means is provided with determination means for determining from the electric wave form the wireless communication network in which said portable communication is for use, in which

the telephone number of the addressee is determined based on determination of said determination means.

15. (AMENDED) A portable communicator provided with:

wireless communication means wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

a portable computer for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel; and

a housing for holding said wireless communication means combined with said portable computer, in which

said portable computer is provided with,

display means for displaying information regarding

the item to be selected by people's countenance;

image data base for storing a plurality of prepared image information regarding people's countenance as well as specified codes corresponding to respective image information;

image detection means for detecting image;

image retrieval means for retrieving from said image data base the information regarding the people's countenance of the image similar to the image detected by said image detection means and transmitting the code corresponding to the image information;

display control means for displaying identification marker on the item displayed by said display means, based on the code transmitted from said image retrieval means; and

data transmitting and receiving means for transmitting and receiving the data regarding the item selected via said wireless communication means, based on the code transmitted from said image retrieval means.

16. (AMENDED) A communication system composed of a center unit and a terminal unit that can wirelessly communicate with said center unit, in which

said terminal unit is provided with:

instruction input means for instructing said center unit to provide a place which a user of said terminal unit has to drop in;

communication means for transmitting to said center unit the instruction from said instruction input means and

the identification information by which the terminal unit or the user of said terminal unit is identified, and for receiving transmission from said center unit;

display means for displaying the information regarding the place to drop in received via said communication means; and

transmission control means for transmitting to said center unit the order information obtained at the place to drop in, and

said center unit is provided with:

set memory means for storing the information of a route to the place to drop in and the map information indicating said route, both information being set for each said identification information;

retrieval means for retrieving the route information and the map information corresponding to the identification information from said set memory means, in response to receipt from said terminal unit of the instruction of said place to drop in and of the identification information;

transmission means for transmitting to said terminal unit the route information and the map information retrieved by said retrieval means for display on said display means of said terminal unit; and

order process means for processing order based on the order information from said terminal unit.

17. (AMENDED) A communication system composed of a

center unit and a terminal unit that can wirelessly communicate with said center unit, in which

said terminal unit is provided with:

instruction input means for instructing said center unit to provide place and time at which a user of said terminal unit has to drop in;

communication means for transmitting to said center unit the instruction from said instruction input means and the identification information by which the terminal unit or the user of said terminal unit is identified, and for receiving transmission from said center unit; and

display means for displaying the information regarding the place and time to drop in received via said communication means, and

said center unit is provided with:

set memory means for storing the information indicating a route to the place and the time to drop in and the map information indicating said route, both information being set for each said identification information;

retrieval means for retrieving the route information and the map information corresponding to the identification information from said set memory means, in response to receipt from said terminal unit of the instruction of said place and time to drop in and of the identification information; and

transmission means for transmitting to said terminal unit the route information and the map information

retrieved by said retrieval means for display on said display means of said terminal unit.

18. (AMENDED) The communication system according to claim 17 in which said route information includes the information of temporary waiting or parking places.

19. A communication system composed of a center unit and a terminal unit that can wirelessly communicate with said center unit, in which

said terminal unit is provided with:

input means for entering a plurality of places which a user of said terminal unit has to drop in;

communication means for transmitting to said center unit the information entered by said input means and receiving transmission from said center unit; and

display means for displaying the information received via said communication means, and

said center unit is provided with:

map information memory means for storing map information;

route set means for setting a route for efficiently traveling places in response to receipt of the information of a plurality of places to drop in from said terminal unit;

retrieval means for retrieving the map information corresponding to the route set by said route set means from said map information memory means; and

transmission means for transmitting to said terminal unit the route information set by said route set

means and the map information retrieved by said retrieval means for display on said display means of said terminal unit.

20. (AMENDED) An information process unit for executing various processes in response to the people's countenance, provided with:

a housing;

display means provided in a surface of said housing and having a display surface for displaying the data to process;

image pickup means having a light receiving part provided on the surface of said housing adjacent to said display surface for picking up the image of the countenance of an operator, the forward part of said display surface being the image pick-up range;

image data base for storing a plurality of image information of prepared people's countenance as well as codes corresponding to respective image information;

image retrieval means for retrieving from said image data base the information of people's countenance of the image similar to the image picked up by said image pickup means; and

retrieval signal output means for transmitting the code corresponding to the information of people's countenance of the similar image.

21. An image information transmission unit provided with:

pen input means able to enter character or drawing

information by operating a pen;

conversion means for converting the character information entered by said pen input means into a specified code;

designation means for designating that the information entered by said pen input means is a facsimile number; and

transmission means for transmitting the character or drawing information entered by said pen input means or the code converted by said conversion means, based on the facsimile number of an addressee designated by said designation means.

22. A pen input unit provided with:

pen input means able to enter character or drawing information by operating a pen;

display means for displaying the character information entered by said pen input means; and

display control means for compressing the previously entered characters if the number of characters to be displayed on said display means exceeds the predetermined number of characters and displaying a newly entered character in an uncompressed condition.

23. (DELETED)

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26. (AMENDED) A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing

and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means to said public communication channel, in which

said portable computer is provided with:

place name memory means for storing a plurality of position data and storing the place name data corresponding to respective position data;

position coordinate data input means for entering position coordinate data from a GPS user unit held in said housing or provided outside said housing;

retrieval means for retrieving the place name data corresponding to position data from said memory means, in response to input of the current position from said position coordinate data input means; and

voice guide means for guiding with voice the place name data retrieved by said retrieval means.

27. (ADDED) The portable communicator according to claim 3 in which the information transmitted by said main control unit is the information for selecting applicable item in said main control unit and said update means updates the memory information of said data table when said applicable

item is changed.

28. (ADDED) The portable communicator according to claim 15 in which said portable computer is provided with mark change display control means for displaying the mark indicating execution replacing said identification marker when the code transmitted from said image retrieval means is the code indicating execution of the selected item.

29. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

call means for making a call via said wireless communication means; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data for entering the position coordinate data indicating the current position from a GPS user unit held in said housing or provided outside said housing; and

transmission control means for transmitting the

position information entered by said position coordinate data input means via said wireless communication means to an addressee in a requested transmission form, in response to receipt from the addressee of signals of request for transmitting the position information including a signal regarding the form of transmitting the position information.

30. (ADDED) The portable communicator according to claim 29 in which said transmission control means transmits with voice the feature of the vicinity of the current position.

31. (ADDED) The portable communicator according to claim 29 in which said transmission control means transmits the map of the vicinity of the current position via facsimile.

32. (ADDED) The portable communicator according to claim 29 in which said portable computer is provided with feature extraction means for retrieving the stored map information based on said position coordinate data of said position coordinate data input means and extracting the feature of the vicinity from the map information corresponding to the position coordinate data, and

said transmission control means converts said feature extracted by said feature extraction means into voice and transmits via telephone through said wireless communication means.